

PATENT ABSTRACTS OF JAPAN

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(54) MUSIC SELECTING METHOD IN COMMUNICATION KARAOKE

(57)Abstract:

PROBLEM TO BE SOLVED: To hasten the music selecting operation to facilitate the selection of music and grasp the tendency of songs such that which song is now popular.

SOLUTION: In this music selecting method a step of recording a requested name of song or song number together with utilization information as data in a recording means a step of sorting editing and recording the data on the basis of the utilization information a step of displaying the sorted data on a display device and a step of selecting a song by the displayed data are successively executed to perform the selection of music. The selection of music is facilitated by the sorting result and the tendency of songs can be known.

CLAIMS

[Claim(s)]

[Claim 1] A song selection method characterized by comprising the following in a communication karaoke system.

A stage which uses requested music as data and records it on a recording device with use information.

A stage which carries out sorting of said data edits it and records it based on use information.

A stage which displays said data by which sorting was carried out and which was carried out on a display.

A stage of selecting a song with said displayed data.

[Claim 2] A song selection method in online karaoke of claim 1 to which said use information is characterized by being at least one in what appended a user's initial to the data using frequency importance and liking music which were requested and

used and other additive attributes information on joy and humor and pathos.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention] This invention relates to the song selection method at the time of the request in online karaoke.

[0002]

[Description of the Prior Art] In the conventional online karaoke when the music to request was chosen the screen was scrolled looked for and carried out irrespective of the past using state till then from the collection of lists which turned over the page from the collection of lists in a printing book or was displayed on the screen of the karaoke device. When it was a collection of lists of the printing book it was serious for the person of a presbyopia to hang glasses if a character is small and for there to have been a thing with an indoor dark proof which it cuts off will be hard to read the character of a track name if it is too bright conversely and dazzling to have taken time and to have found the music number of hope. In the case of the collection of lists of a screen display since many screens occasionally had to be scrolled it was serious also here.

[0003]

[Problem(s) to be Solved by the Invention] In the conventional online karaoke terminal when the music to request was chosen and the music of through and a request was mechanically reached in eyes from the anthology on the list located in a line with the order of the Japanese syllabary of a track name or the order of the Japanese syllabary of the singer name the music number was set up. When it was this method finding the music number of hope required time and it was inconvenience. A visitor only merely sings favorite music and did not have the means by which the tendency of music etc. get to know whether which music is the most popular in what kind of music is in a modern line. It aims at providing the song selection method of online karaoke that the tendency of popular music etc. can know whether which music is the most popular in what kind of music is in a modern line while it becomes make song selection operation early and easy to select a song in this invention.

[0004]

[Means for Solving the Problem] A song selection method in a communication karaoke system concerning this invention A stage which uses as data a track name and a music number which were requested and records them on a recording device with use information Sequential execution of a stage which carries out sorting of this data edits it and records it based on use information a stage which displays data by which sorting was carried out and which was carried out on a display and the stage of selecting a song with displayed data is carried out and a song is selected. This invention adopts at least one in what appended a user's initial to the

date using frequency importance and liking music which said use information requested again and other additive-attributes information on joy anger humor and pathos.

[0005]

[Embodiment of the Invention]

Below embodiment 1. explains this invention according to a drawing. First in drawing 4 the online karaoke terminal 1 in which this invention is carried out is explained. The online karaoke terminal 1 The communication line 2 the remote controller 3 of a different body the infrared receive section 4 ROM 5 wave ROM 6 sound-source RAM 7 sound-source D/A 8 image D/A 9 the video encoder 10 the communication control circuit (NCU) 11 the bus 12 CPU 13 work RAM 14 MIDI sound source 15 It comprises CRT 25 of the memory storage 20 such as the sound-source mixer 17 the loudspeaker 18 of a different body the microphone 19 of a different body and HDD (hard disk drive) the character generation circuit (VDP) 22 of the words for image restoration and the display of a different body and the key 60.

[0006] The receive section 4 is established in the transverse plane of the online karaoke terminal 1 and receives the infrared signal from the remote controller 3. ROM 5 stores the program on which the program in which CPU 13 operates is stored in and the inquiry menu of additional information is displayed at the time of a request at the time of online karaoke terminal 1 starting.

[0007] The data of a request song is incorporated into the memory storage 20 from a karaoke database by the communication control circuit (NCU) 11 via the communication line 2. In MIDI sound source 15 an accompaniment sound is reproduced based on the music data from the memory storage 20 it is mixed by the singing voice and the sound-source mixer 17 from the microphone 19 and these are outputted from the loudspeaker 18. A character pattern is generated in the character generation circuit (VDP) 22 it is mixed with the background video and the encoder 10 from an external video image device and the lyrics data of karaoke data is displayed on CRT 25.

[0008] Although arranged at the box of the online karaoke terminal 1 a user uses the key 60 like the remote controller 3 when music requests. As for the memory storage 20 the field of the history database 63 and the sort-data preserving part 69 is secured beforehand independently [the music field 21 which memorizes music data]. The history database 63 memorizes the number of the requested music with use information and the sort-data preserving part 69 memorizes sorting results.

[0009] In drawing 3 the composition inside central arithmetic unit CPU 13 of this invention is explained and the relation between CPU 13 and the history database 63 grade in the memory storage 20 is explained below.

[0010] CPU 13 Detection **** for the garbage data in the music data display control part 59 the data creation part 61 the data comparison part 62 to compare the data updating section 64 which updates the data in the history database 63 and the history database 63 the garbage data in the unnecessary data detector 65 and the

history database 63. It comprises the unnecessary data deletion part 66 to delete the conditioning part 67 to which a sort condition is set and the sorting execution part 68 which sorts the inside of the history database 63.

[0011] Next when the karaoke device 1 is started to use the flow chart of drawing 1 explains the operation which builds the history database 63 in the memory storage 20. In Step S1 a user operates the key 60 or the controller 3 and inputs the music number 12-34 grade of a request song. In this stage the karaoke device 1 displays the tune number of the request song concerned on the screen of CRT25 and a request is simultaneously sent to a host's database center via the communication line 2.

[0012] In Step S2 the date and using frequency in this time are automatically created by the data creation part 61 about the music number 12-34 of the request song concerned. CPU12 can display an inquiry of additional information on the screen of CRT25 and can make the initial and importance of a name of a request person**** by user judgment etc. add using the key 60 or the controller 3. The additional information data about the music number of the request song concerned is created by the data creation part 61 in this way.

[0013] In Step S3 the data comparison part 62 investigates whether the additional information of the music number 12-34 requested this time exists in the history database 63. If the additional information of the music number 12-34 exists in the history database 63 it will progress to step S4 and the data updating section 64 will add the additional information of music number 12-34 **. For example what was requested to the using frequency position this time is done for renewal of an addition and the number of times +1 or attached data such as an initial is added.

[0014] If the additional information of the music number 12-34 does not exist in the history database 63 it progresses to Step S5 and the data updating section 64 will newly provide the data column of the music number 12-34 in the history database 63 and will add additional information. For example attached data such as an initial of a request person's name is newly recorded on a using frequency position newly [number of times / 1 / by a request] this time. The history database 63 of Table 1 is formed by operation of step S4 or Step S5.

[0015] An example of the additional information data in the history database 63 is shown in Table 1.

Example data of table 1 historical data Track name Music number using frequency
The newest use days and months Importance 1 A music 12-34 2 963 and 5 C 2 B
music 56-78 5 963 1 C This additional information data is not what was
arranged in a certain turn but is existence of mere data.

[0016] Next since a limit is located in the storage area of the history database 63 it is investigated at Step S6 whether the unnecessary data detector 65 has unnecessary data in the history database 63. Unnecessary data has little using frequency for example in the data column of the music number before 1 etc. the last use day corresponds.

[0017] If unnecessary data exists in the history database 63 it will progress to Step S7 and the unnecessary data deletion part 66 will delete a music number for

example the data column of 00-00. If there is no unnecessary data when the history database 63 has a margin it will return to Step S1 and will wait for the next request. Step S5 is repeated from Step S1 and the history database 63 of additional information is formed.

[0018] Next in order to select a song easily by making song selection operation early the operation on which sorting results are displayed is explained according to the flow chart of drawing 2. If it becomes a request menu please input a sort condition by a predetermined program will be displayed on a screen. In Step S8 the using frequency and the initial of a sort condition are inputted into the conditioning part 67 from the key 60 or the remote controller 3. In step S9 the sorting execution part 68 sorts the additional information data of the music number in the history database 63 according to this sort condition.

[0019] In Step S10 the sorting execution part 68 saves sorting results at the sort-data preserving part 69 temporarily and the music data display control part 59 reads sort data from the data storage part 69 in Step S11. Sorting results as shown in Table 2 are expressed to CRT25 as Step S12. If additional information is using frequency what was displayed on the screen will become as it is shown in the following table 2.

[0020]

Display example of the Table 2 screen Sort condition <the order display of using frequency> ranking Using frequency Track name Music number

1 12 C music 22-11 2 11 D music 33-44 3 10 E music 55-66 [0021] A user becomes [mind / a one / of requesting the popular C music No. 11 / 22 to / sung well] seeing this. Of course the user can make the initial of a name a sort condition can display the music which is its No. 18 can find a music number and can also do prompt execution of the song selection. [who sang before]

[0022] The request of this time also goes to Step S1 of the low chart of drawing 1 which builds a history database and a history database is updated. In this invention since a sort condition can be inputted first sorting results can be displayed on CRT25 as shown in Table 2 and the target music number can be known when making a request song a karaoke device song selection becomes easy.

[0023] If a user's initial is sorted the table of the song which he wants to sing is displayed with a music number namely can try to be alike. If everybody especially attach the initial by home online karaokerespectively song selection will come to be easy.

[0024] According to the song selection method of this invention the data about the specific music used in the past is saved sorting is carried out by the conditions for which it wishes and the data of the music list only according to display order is displayed on a screen. For this reason it becomes possible to request only using the music list data displayed on the screen and the time which song selection work takes is substantially shortened compared with the former.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1] It is a flow chart which shows the operation which builds the history database of the song selection method in the online karaoke of this embodiment of the invention 1.

[Drawing 2] It is a flow chart which shows the operation which displays the sorting results of the song selection method in the online karaoke of Embodiment 1.

[Drawing 3] It is a block diagram with a detailed important section of the online karaoke terminal in which this embodiment of the invention 1 is carried out.

[Drawing 4] It is the whole online karaoke terminal block diagram in which Embodiment 1 is carried out.

[Description of Notations]

- 1 Online karaoke terminal
- 2 Communication line
- 3 Remote controller
- 4 Receive section
- 5 Wave ROM
- 7 Sound-source RAM
- 8 Sound-source D/A
- 9 Image D/A
- 10 Video encoder
- 11 Communication control circuit (NCU)
- 12 Bus
- 13 CPU
- 14 Work RAM
- 15 MIDI sound source
- 17 Sound-source mixer
- 18 Loudspeaker
- 19 Microphone
- 20 Memory storage
- 22 Character generation circuit (VDP)
- 25 CRT
- 59 Music data display control part
- 60 Key
- 61 Data creation part
- 62 Data comparison part
- 63 History database
- 64 Data updating section
- 65 Unnecessary data detector
- 66 Unnecessary data deletion part
- 67 Conditioning part
- 68 Sorting execution part
- 69 Sort-data preserving part